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APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INV		/ENTOR	ATTORNEY DOCKET NO.
┌ ^{09/548,946}	04/13/00	ESTACIO	乛	M 18865-004500 EXAMINER
020350 MMC2/0501 TOWNSEND AND TOWNSEND AND CREW TWO EMBARCADERO CENTER				ARTUNIT PAPER NUMBER
EIGHTH FLOOR SAN FRANCISCO CA 94111-3834				DATE MAJLEP:

05/01/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary

Application No. 09/548,946

Applicant(s)

Estacio et al

Examiner

Nitin Parekh

Art Unit **2811**

The MAILING DATE of this communication appears	on the cover sheet with the correspondence address				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE THE MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE MONTH(S) FROM				
 Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep be considered timely. 					
 If NO period for reply is specified above, the maximum statutory period communication. Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin 	e, cause the application to become ABANDONED (35 U.S.C. § 133).				
earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) 🔀 Responsive to communication(s) filed on <u>Aug 28, 2</u>	2000				
2a) ☐ This action is FINAL . 2b) ☒ This acti					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle35 C.D. 11; 453 O.G. 213.					
Disposition of Claims					
4) 🗓 Claim(s) <u>1-6</u>	is/are pending in the applica				
4a) Of the above, claim(s)	is/are withdrawn from considera				
5)	is/are allowed.				
6)	is/are rejected.				
7)	is/are objected to.				
8) 🕅 Claims <u>1-6</u>	are subject to restriction and/or election requirem				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/a	re objected to by the Examiner.				
11) The proposed drawing correction filed on	is: a approved b) disapproved.				
12) The oath or declaration is objected to by the Examine	er.				
Priority under 35 U.S.C. § 119					
13) Acknowledgement is made of a claim for foreign prior	rity under 35 U.S.C. § 119(a)-(d).				
a)☐ All b) ☐ Some* c) ☐None of:					
1. Certified copies of the priority documents have	been received.				
2. Certified copies of the priority documents have	been received in Application No				
 Copies of the certified copies of the priority doc application from the International Bureau *See the attached detailed Office action for a list of the 	(PCT Rule 17.2(a)).				
14) Acknowledgement is made of a claim for domestic pi	·				
Attachment(s)					
15) Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s)				
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)				
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

Application/Control Number: 09548946

Art Unit: 2811

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 5 and 6, drawn to a semiconductor device, classified in class 257, subclass 737
 - II. Claims 1-5, drawn to a method of making a semiconductor device, classified in class 438, subclass 613.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of Group I invention would not necessarily imply unpatentability of the process of the group II invention, since the device of group I invention could be made by the processes different from those of group II invention. For example, performing the steps in order of: providing solder bumped die including a plurality of solder/metal bumps on front and backside of the bumped die; providing a copper clip; connecting the copper clip to the backside of the die using thermocompression; depositing the solder paste at the contacting portions of the die, copper clip and the lead frame; placing the die with the copper clip on the lead frame to contact the respective source/gate bumps; and then reflowing the solder paste and solder bumps.

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Papers related to this application may be submitted directly to Art Unit 2811 by Facsimile transmission. Papers should be faxed to Art Unit via Tech Center 2800 fax center located in Crystal Plaza 4, Room 4C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh at (703) 305-3410. The examiner can normally be reached on Monday-Friday from 08:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas, can be reached on (703) 308-2772. The fax number for the organization where this application or proceeding is assigned is (703) 308-7722 or 7724.

Nitin Parekh

04-30-01

TOM THOMAS SUPERVISORY PATENT STATES